

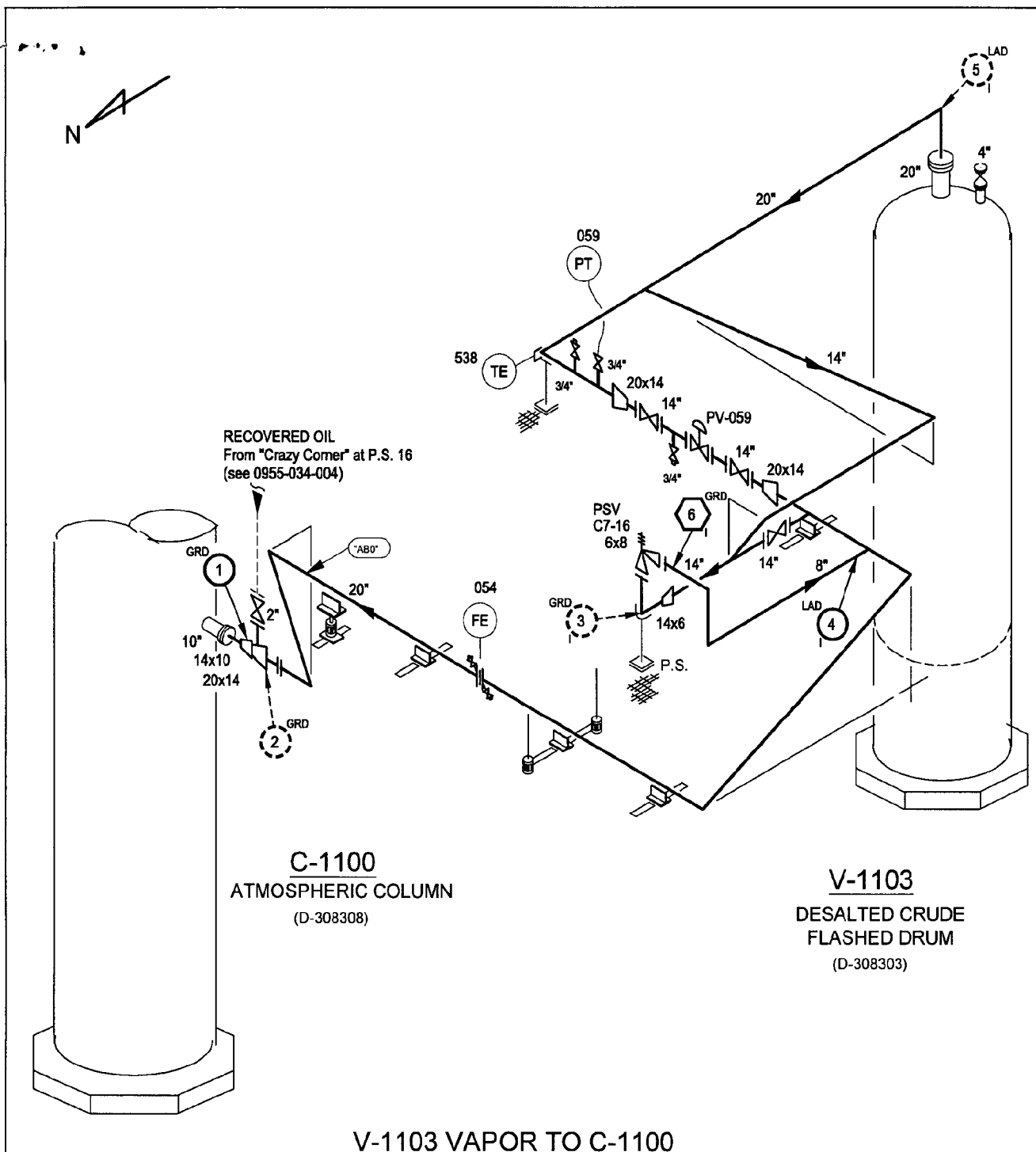
Corrosion Report



Equipment Location ID 0955-002-022
Equip. Location Descrip. V-1103 VAPOR TO C-1100

Remaining Life (Years) 48.60
Retirement Date 08/04/2056
Last Inspection Date 12/28/2007
Next Inspection Date 12/21/2017
Current Corrosion Rate 4.94

DP ID	MEAS METH	DP STAT	DP SZ	DT TYPE	BASE	MEAS 5	MEAS 4	MEAS 3	NEAR	LAST	MIN VALUE	CCR	REM LIFE
001.B	UT	A	10.00	RED	0.387 08/02					0.400 12/07	0.140	0.00	∞
001.N	UT	A	10.00	RED	0.392 08/02					0.390 12/07	0.140	0.37	673.85
001.S	UT	A	10.00	RED	0.387 08/02					0.390 12/07	0.140	0.00	∞
001.T	UT	A	10.00	RED	0.399 08/02					0.390 12/07	0.140	1.67	149.70
004.E	UT	A	8.00	PIPE	0.386 07/02					0.400 12/07	0.140	0.00	∞
004.J	UT	A	8.00	PIPE	0.392 07/02					0.400 12/07	0.140	0.00	∞
004.W	UT	A	8.00	PIPE	0.407 07/02					0.380 12/07	0.140	4.94	48.60
006.U	UT	A	8.00	PIPE	0.317 08/02					0.310 12/07	0.140	1.30	131.27



STATUS: ISO570 COMPLETE		RATING? <input checked="" type="checkbox"/> 150# <input type="checkbox"/> 300#		API-570 <input type="checkbox"/> CLASS I		REVISION RECONCILED LABELING AND STANDARDIZED FORMAT FOR PRD/PSV IDENTIFICATION. 02/15/08		DOGR PHSC	
MATERIAL: C.S.		SERVICE: DESALTED VAPOR		<input type="checkbox"/> CLASS II					
PIPE CLASS: "AB0"		PWHT: NO		<input checked="" type="checkbox"/> CLASS III					
INSULATED? <input checked="" type="checkbox"/>									
LINE NAME: V-1103 VAPOR TO C-1100				INSPECTION PIPING ISOMETRIC					
FROM: V-1103				#2 DESALTED CRUDE					
TO: C-1100				#4 CRUDE UNIT (PLANT 11)					
				DISTILLATION AND REFORMING AREA BUSINESS UNIT					
				02/18/2008 DOGR					
				Z 0955-002-022					
				REV SHT 4 1					



History Brief

For Location ID: 0955-002-022 in Unit: 0955

Report Date: August 15, 2012

Data Source: Meridium

Brief Data:

Date Not Available:	4/29/2009	Date Available:	04/29/2009
History Brief Date:	04/29/2009	History Brief ID:	VI-0904220616
Event Type:	Repair	In- Service Date:	04/29/2009
Equipment ID:	0955-002-022	Critical:	
Asset ID:	0000110848	Reference Material:	
Work Order Nbr:		Incident Event ID:	
History Type:	FXD	Inspection Date:	04/29/2009
Asset Type:	221	Inspection Type:	EVI
Cost Center:	K.DCRR100281		
Unit:	0955 - 4 CRUDE UNIT PLT 11		
Headline:	Insulation damage in CGUT area nearPRD_needs to be sealed		

Reliability Analysis:

Event Type:	Repair	Worked Performed By:	Chevron Reliability
Cause Category:	Information	Program Status:	
Effect Category:	Corrosion	Maintainable Item:	Pipe Wall
Repair Location:		Permanent Repair WO:	
Temporary Repair:		Name:	TBEA
Save:		Inspected By:	TBEA

Findings:

PCA ID:
Inspectable:
Sub Item:
Part:
Discussion:

Condition:
Action:
Location:
Damage Mechanism:
PCA Work Order No :

Reliability Comments:

Insulation is unsealed near TML 6. Insulation is damaged and needs to be repaired. Insulation should be installed leaving at least 10 inches of bare pipe between the PRD and the start of the insulation to allow for the CGUT inspection.

Recommendation

1. remove and replace damaged insulation
contact inspector with any questions

John
2-5187



History Brief

For Location ID: 0955-002-022 in Unit: 0955

Report Date: August 15, 2012

Data Source: Meridium

Brief Data:

Date Not Available:	11/28/2007	Date Available:	11/28/2007
History Brief Date:	04/10/2012	History Brief ID:	VI-1204254512
Event Type:	Inspection	In- Service Date:	11/28/2007
Equipment ID:	0955-002-022	Critical:	L
Asset ID:	0000110848	Reference Material:	
Work Order Nbr:		Incident Event ID:	
History Type:	FXD	Inspection Date:	11/28/2007
Asset Type:	221	Inspection Type:	EVI
Cost Center:	K.DCRR00281		
Unit:	0955 - 4 CRUDE UNIT PLT 11		
Headline:	RFMS CUI Project		

Reliability Analysis:

Event Type:	Inspection	Worked Performed By:	Chevron Reliability
Cause Category:	Information	Program Status:	
Effect Category:	Corrosion	Maintainable Item:	Pipe Wall
Repair Location:		Permanent Repair WO:	
Temporary Repair:		Name:	CSAA
Save:		Inspected By:	CSAA

Findings:

PCA ID:

Inspectable:

Sub Item:

Part:

Discussion:

Condition:

Action:

Location:

Damage Mechanism:

PCA Work Order No :

Reliability Comments:

A 25 foot section was stripped of insulation on either side of FE-054. The piping was not coated however the mfg. clear coat was still intact on the line and no CUI was noted. The section was re-insulated without coating. Remainder to be stripped yet.



History Brief

For Location ID: 0955-002-022 in Unit: 0955

Report Date: August 15, 2012

Data Source: Meridium

Brief Data:

Date Not Available:	10/31/2007	Date Available:	
History Brief Date:	11/01/2007	History Brief ID:	EI-0711185755
Event Type:	Inspection	In- Service Date:	
Equipment ID:	0955-002-022	Critical:	L
Asset ID:	0000110848	Reference Material:	
Work Order Nbr:		Incident Event ID:	
History Type:	FXD	Inspection Date:	10/31/2007
Asset Type:	221	Inspection Type:	EVI
Cost Center:	K.DCRR100281		
Unit:	0955 - 4 CRUDE UNIT PLT 11		
Headline:	5 Year Ext VT, Minor Supt (REC-66276) And Insul (REC-65836) Issues		

Reliability Analysis:

Event Type:	Inspection	Worked Performed By:	Chevron - General
Cause Category:	Compliance, Inspection, PM	Program Status:	
Effect Category:	No Effect	Maintainable Item:	General
Repair Location:		Permanent Repair WO:	
Temporary Repair:		Name:	JMJG
Save:		Inspected By:	

Reliability Comments:

The easternmost pipe shoe on the V-1100 structure (2nd deck down from the top) rides loosely on its support; one of the clevis supports for the dual spring can hanger just west of this shoe has a backed-off bolt (this should not present a reliability issue since the looser the bolts are, the tighter the clevis hangs on to the support beam). It was also noted that the single spring can support spindle is slightly off-center to the south; this also does not appear to present a reliability concern at this time.



History Brief

For Location ID: 0955-002-022 in Unit: 0955

Report Date: August 15, 2012

Data Source: Meridium

Brief Data:

Date Not Available:	1/6/2005	Date Available:	
History Brief Date:	01/06/2005	History Brief ID:	EI-0501118001
Event Type:	Inspection	In- Service Date:	
Equipment ID:	0955-002-022	Critical:	L
Asset ID:	0000110848	Reference Material:	
Work Order Nbr:		Incident Event ID:	
History Type:	FXD	Inspection Date:	01/06/2005
Asset Type:	221	Inspection Type:	EVI
Cost Center:	K.DCRRRI00281		
Unit:	0955 - 4 CRUDE UNIT PLT 11		
Headline:	C-1100 CUI Insp Shows Inlet Piping Unins, Reco To Insul (Pers Prot- 290 Deg F)		

Reliability Analysis:

Event Type:	Inspection	Worked Performed By:	Chevron - General
Cause Category:	Compliance, Inspection, PM	Program Status:	
Effect Category:	No Effect	Maintainable Item:	General
Repair Location:		Permanent Repair WO:	
Temporary Repair:		Name:	JMJG
Save:		Inspected By:	

Reliability Comments:

Reinsulate at C-1100 inlet for personnel protection (line runs ~ 290 deg F).



History Brief

For Location ID: 0955-002-022 in Unit: 0955

Report Date: August 15, 2012

Data Source: Meridium

Brief Data:

Date Not Available:	11/20/2003	Date Available:	11/20/2003
History Brief Date:	11/20/2003	History Brief ID:	VI-0311095878
Event Type:	Inspection	In- Service Date:	11/20/2003
Equipment ID:	0955-002-022	Critical:	L
Asset ID:	0000110848	Reference Material:	
Work Order Nbr:		Incident Event ID:	
History Type:	FXD	Inspection Date:	11/20/2003
Asset Type:	221	Inspection Type:	EVI
Cost Center:	K.DCRR100281		
Unit:	0955 - 4 CRUDE UNIT PLT 11		
Headline:	5-Year Ext Visual Insp, No Issues		

Reliability Analysis:

Event Type:	Inspection	Worked Performed By:	Chevron Reliability
Cause Category:	Compliance, Inspection, PM	Program Status:	
Effect Category:	Information	Maintainable Item:	Pipe Wall
Repair Location:		Permanent Repair WO:	
Temporary Repair:		Name:	JMJG
Save:		Inspected By:	JMJG

Findings:

PCA ID:

Inspectable:

Sub Item:

Part:

Discussion:

Condition:

Action:

Location:

Damage Mechanism:

PCA Work Order No :

Reliability Comments: